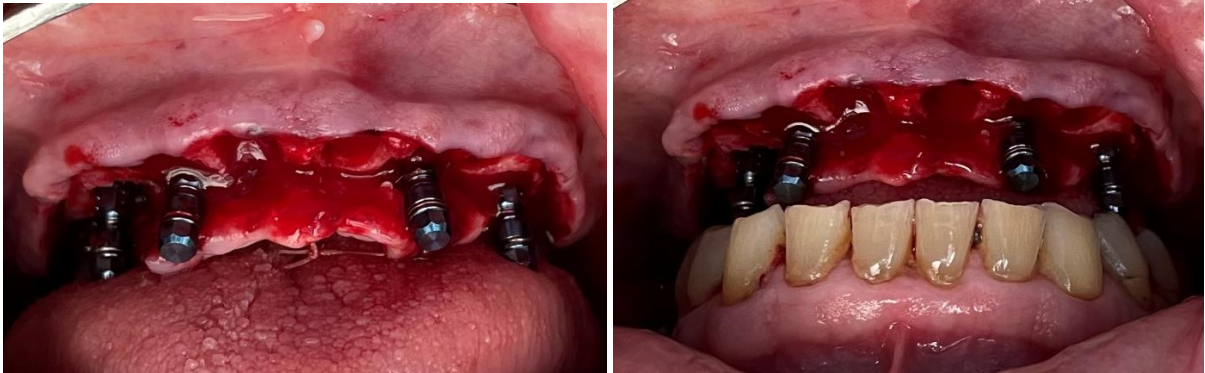


CAPS: Complete Arch Pillar System

Case by Philippe Nuytens ^{DDS, MSc, PhDs}

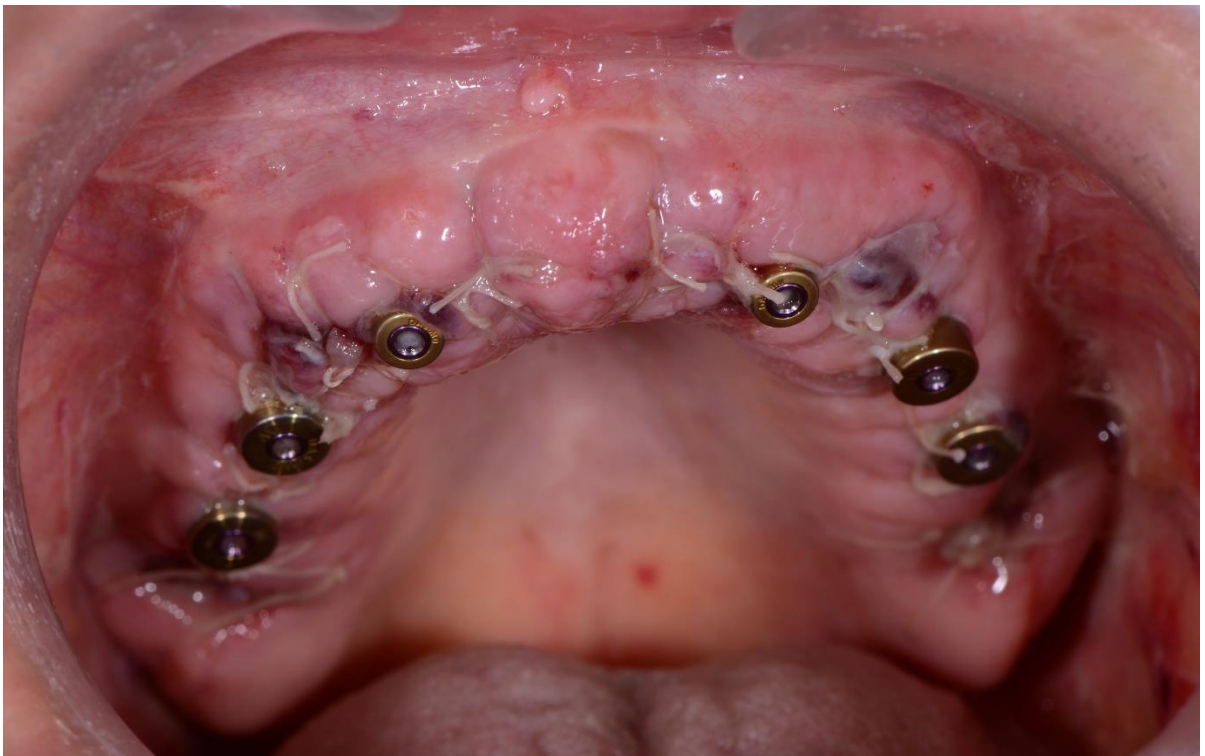
STEP 1: IMPLANT SURGERY

- 6 BONE LEVEL IMPLANTS
- GUIDED DAS SURGICAL KIT
- IMPORTANT: Place implants perpendicular to antagonist arch.



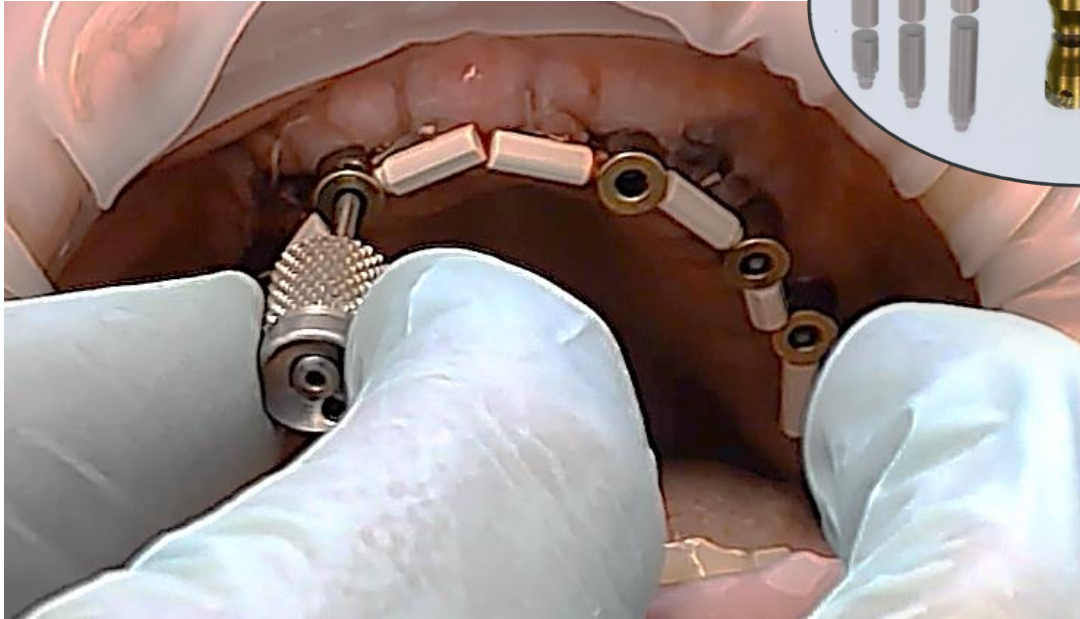
STEP 2: DAS MULTI-UNIT installation + HEALING CAPS

- Use regular healing caps in anterior area.
- Use wide healing caps in posterior area.

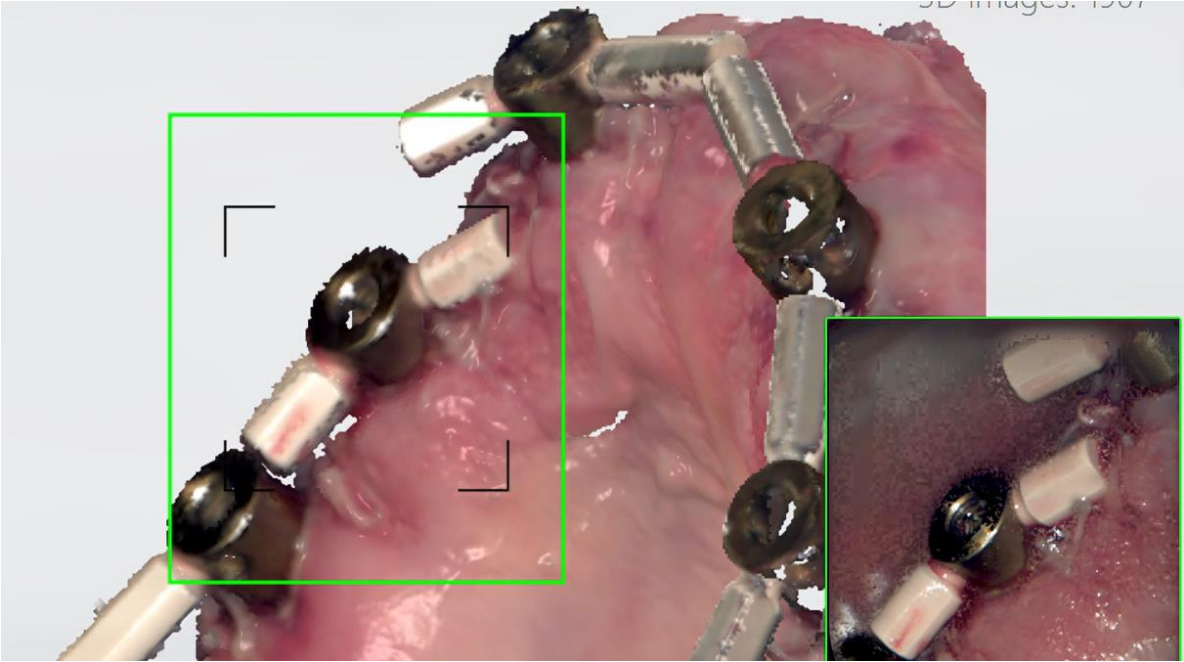


STEP 3: REMOVE HEALING CAPS + INSTALL REFERENCE SCANBODY + PEEK PINS

- FIRST: Mount PEEK PINS to REFERENCE SCANBODY extraorally.
- PEEK PINS: 3 Different Lengths: 6 – 9 – 13 mm.
- INSTALL ASSEMBLED PARTS TO DAS MU-UNIT ABUTMENTS.
- MAKE A CHAIN CONNECTION.



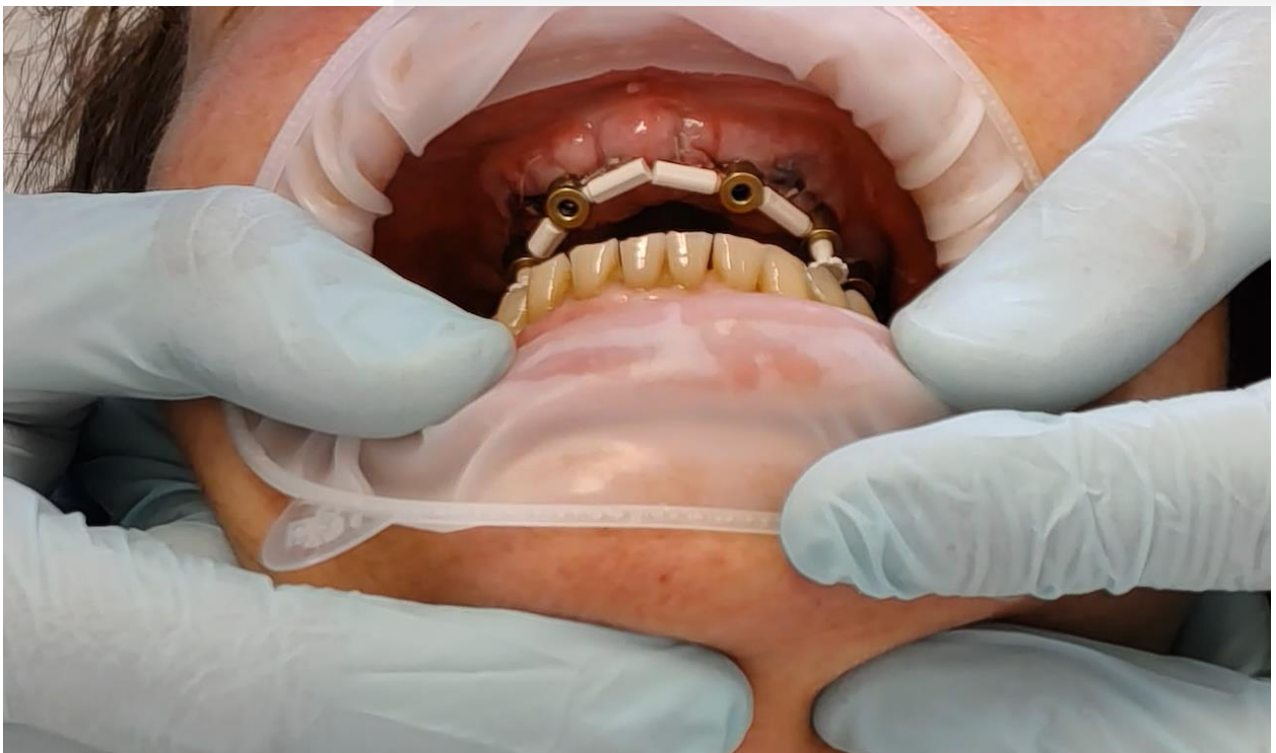
STEP 4: OBTAIN A MAXILLARY IOS SCAN AND AN ANTAGONIST SCAN



STEP 5: CAPS pillars workflow



- 3 Different Heights: 3.8 – 6 – 8 mm.



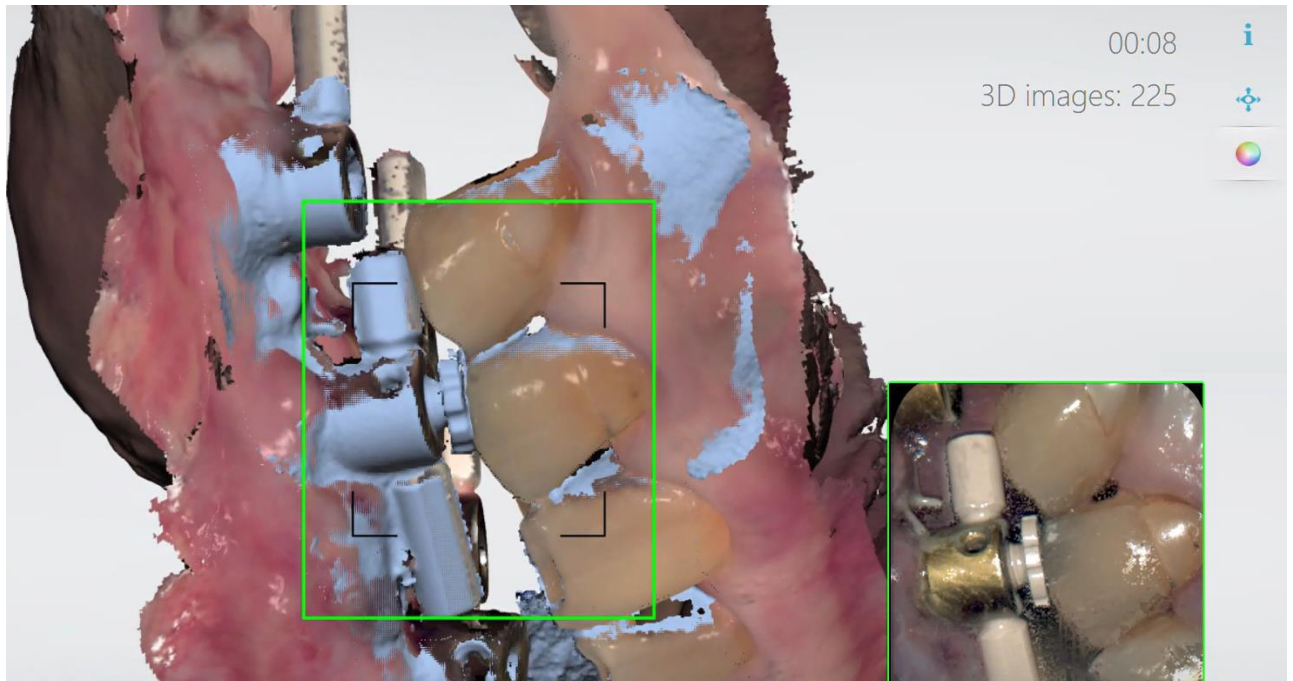
- Mount at least 1 CAPS pillar on EACH SIDE.
- By screwing the CAPS pillar in or out the screw access channel of the REFERENCE SCANBODY, the patient's vertical dimension of occlusion is adjusted.
- Ask the patient to repeat the closure path several times before obtaining virtual occlusal records.

With use of the bilateral manipulation technique, the patient's mandible is guided into centric relation.

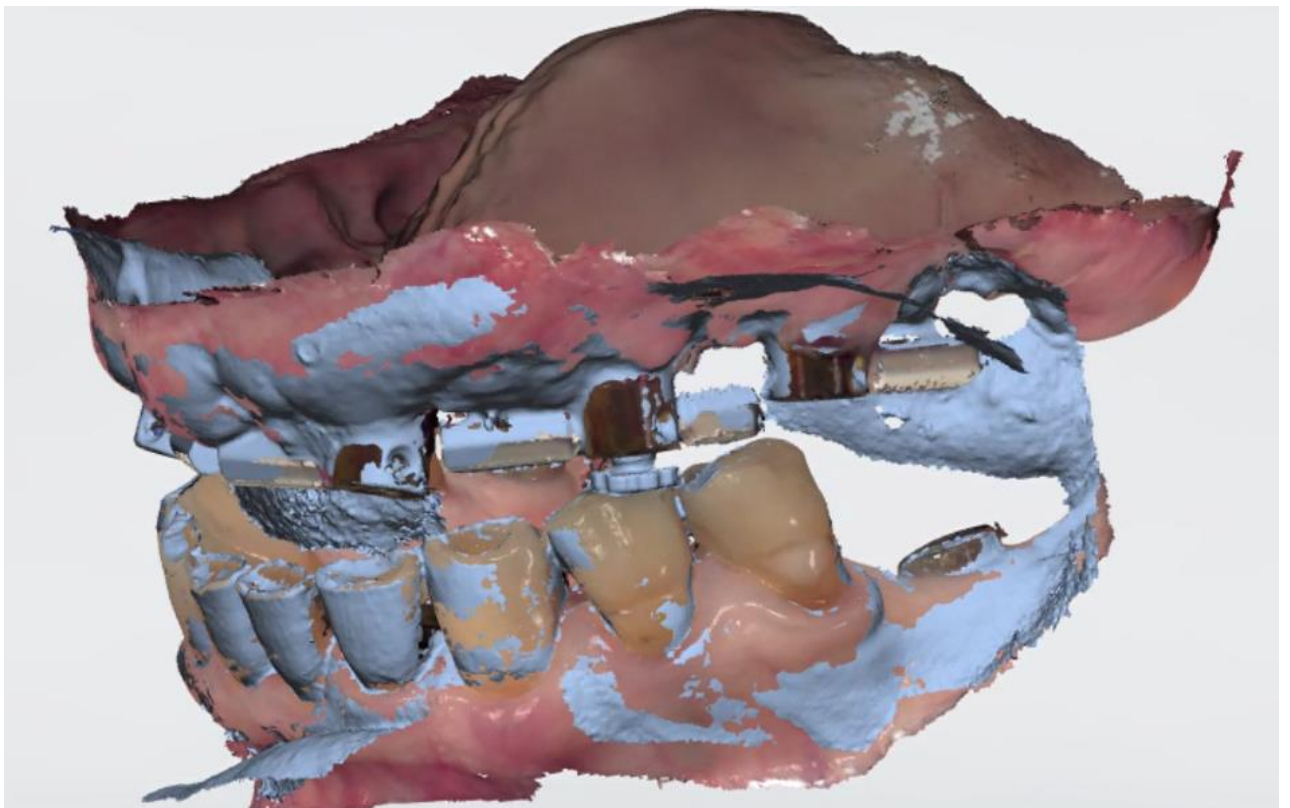


- Note: in order to improve the stability of virtual occlusal records registration, more CAPS pillars could be mounted to multiple REFERENCE SCANBODIES in the edentulous arch. But, it is unnecessary to mount CAPS pillars to each REFERENCE SCANBODY.

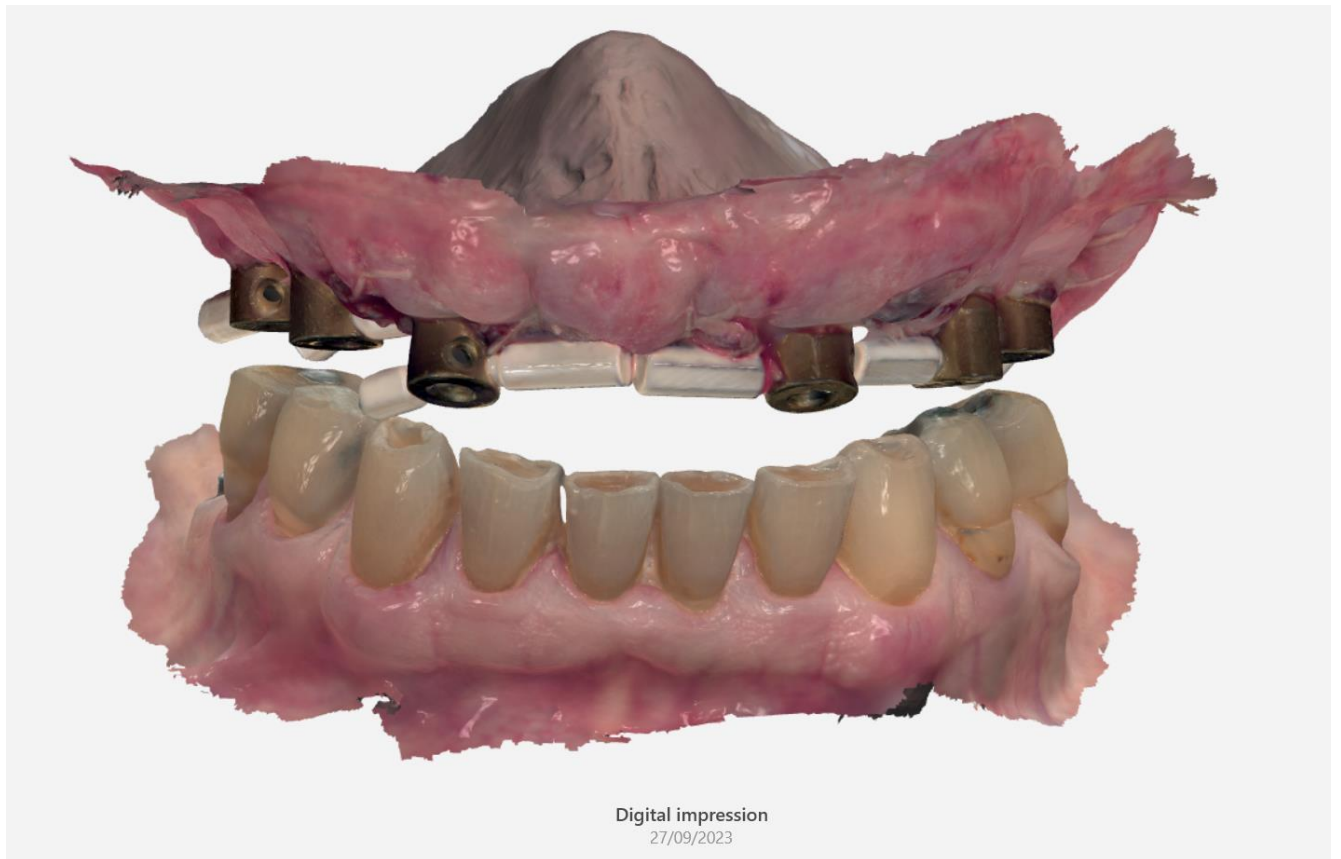
STEP 6: OBTAIN VIRTUAL OCCLUSAL RECORDS USING IOS



- Virtual occlusal records are obtained using an IOS while the patient's mandible is guided into centric relation at the established vertical dimension of occlusion.



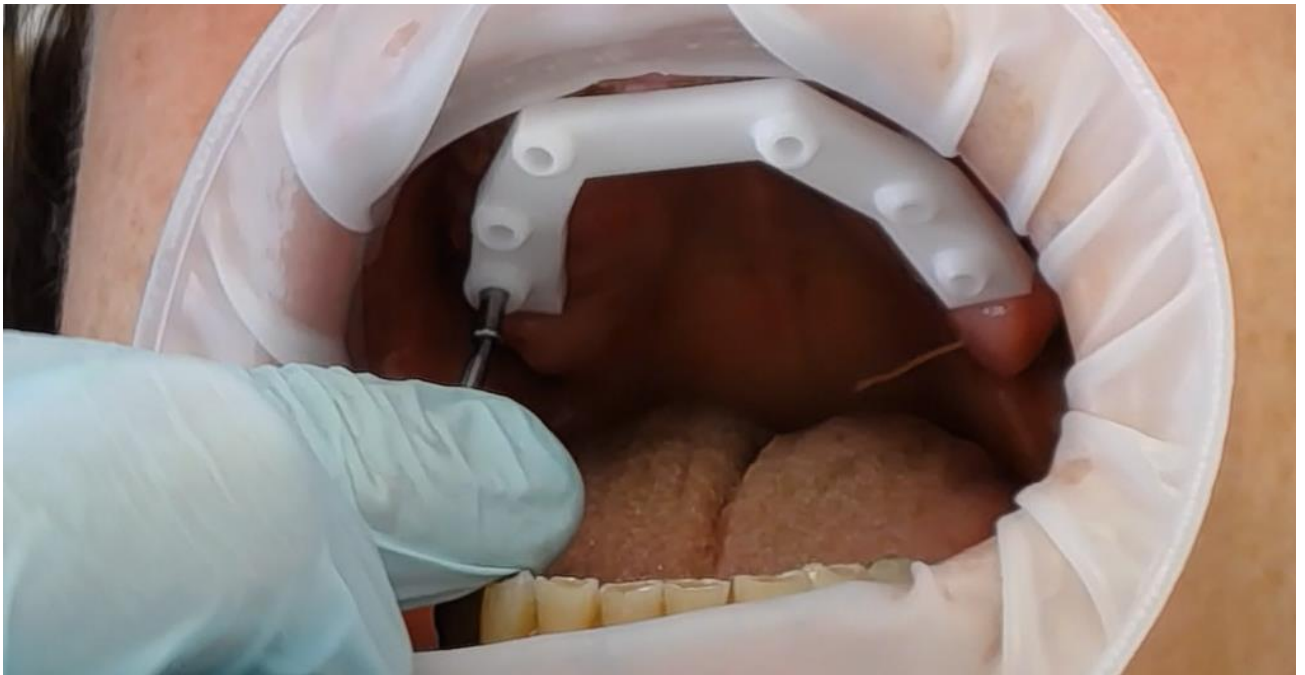
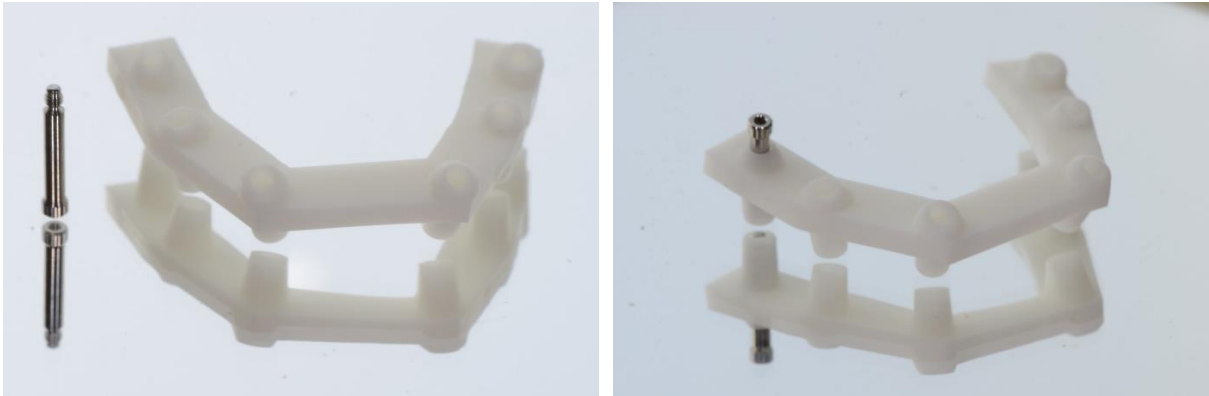
STEP 7: SEND ORDER TO DENTAL TECHNICIAN



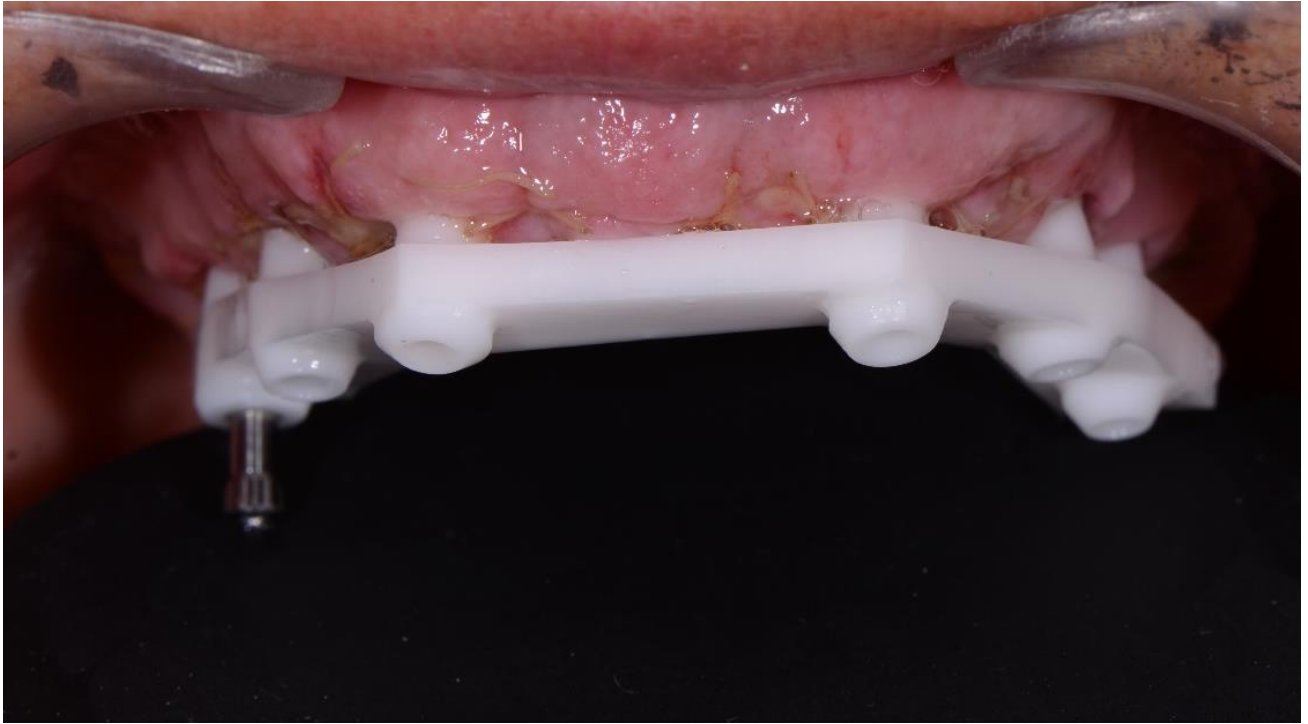
- IOS scans and virtual occlusal records are send to the dental laboratory.

STEP 8: PERFORM SHEFFIELD ONE-SCREW TEST with U-shaped milled VERIFICATION JIG

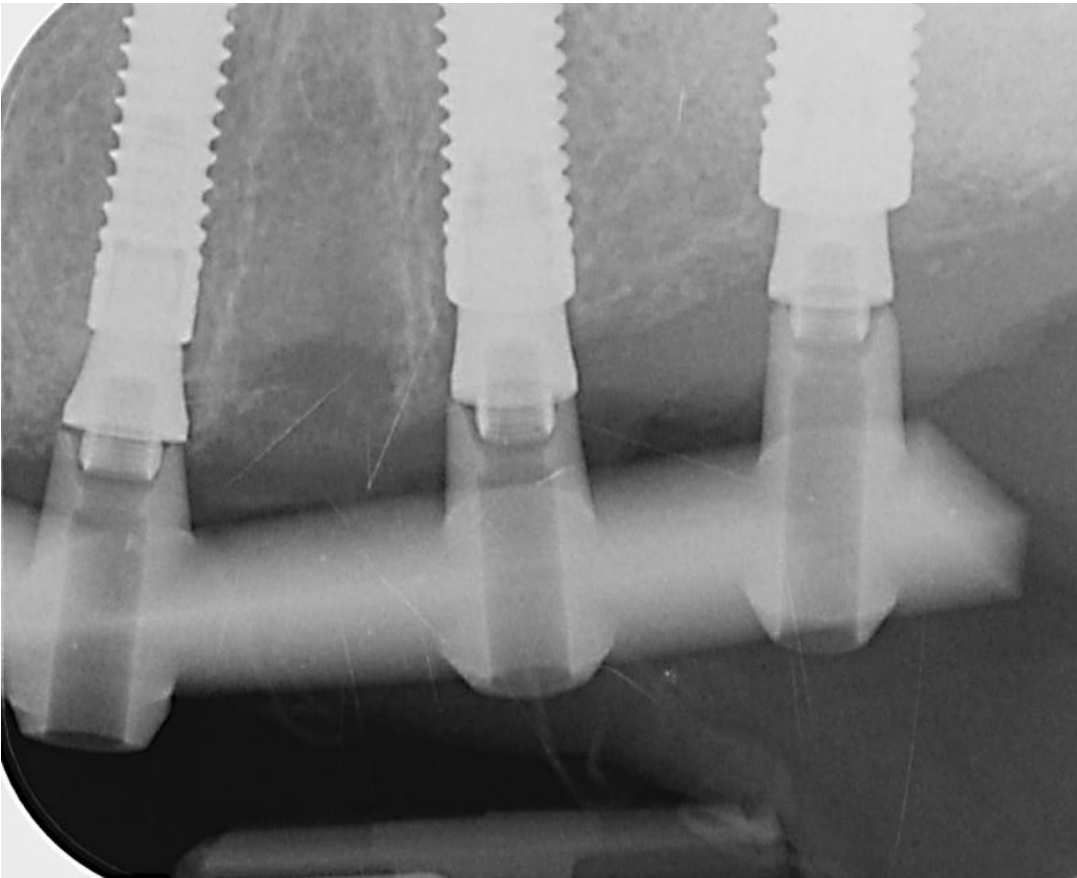
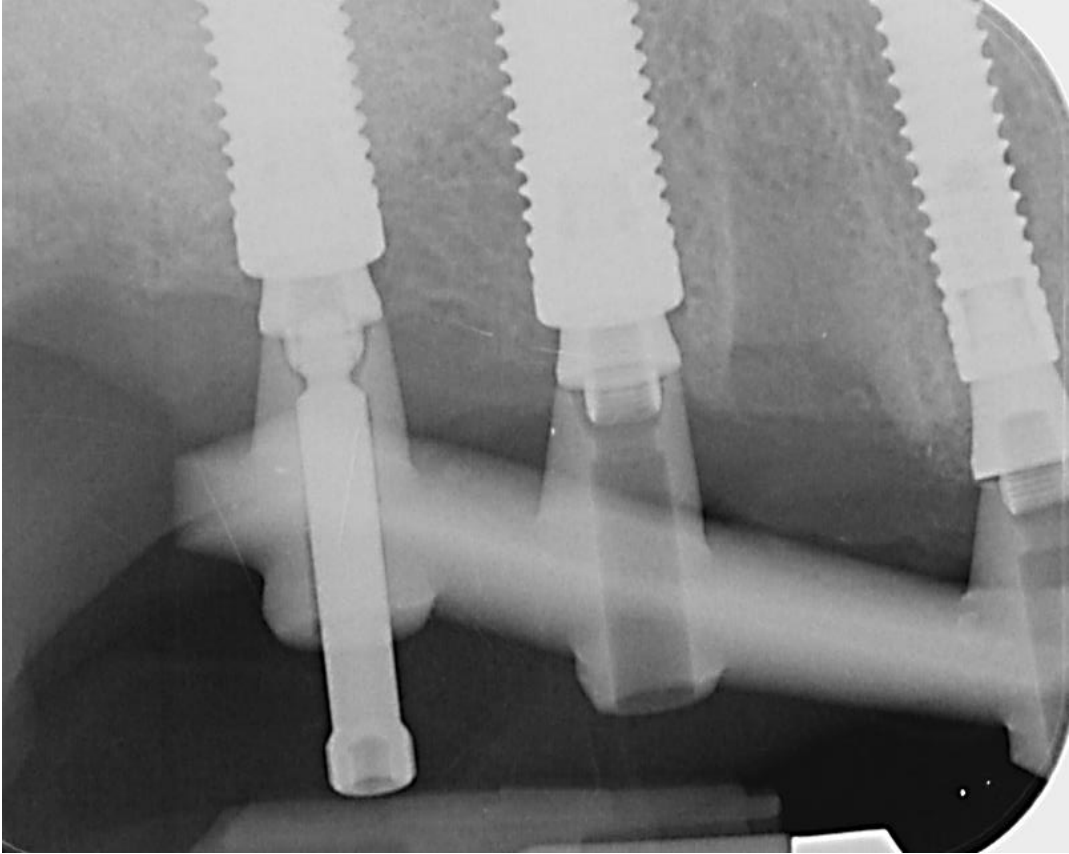
- Recommended to make an U-shaped verification jig in radiopaque PMMA in order to radiographically check the passive fit (Technique by Philippe Nuytens).
- Use a guide pin (same connection as pink screw).



- Place the U-shaped verification jig.
- Place the Guide Pin on position 16.



- Periapical radiographs obtained using Parallaxation Method.
- First radiograph at contralateral side of insertion Guid Pin.



STEP 9: INSTALLATION of PMMA IMMEDIATE FIXED PROVISIONAL PROSTHESIS



- Green screws for direct connection to DAS MU abutments







- No adjustments needed for occlusion.
- Optimal passive fit observed clinically.



Patient was happy and felt no discomfort during the procedure with **Complete Arch Pillar System**.